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(71) Applicant
The Secretary of State for Defence
Defence Research Agency, Farnborough, Hants,
GU14 7TU, United Kingdom

(72) Inventor
Kenneth Harry Heron

(74) Agent and/or Address for Service
R W Beckham
Intellectual Property Department,
Defence Research Agency, R69 Building,
DRA Farnborough, Farnborough, Hants, GU14 6TD,
United Kingdom

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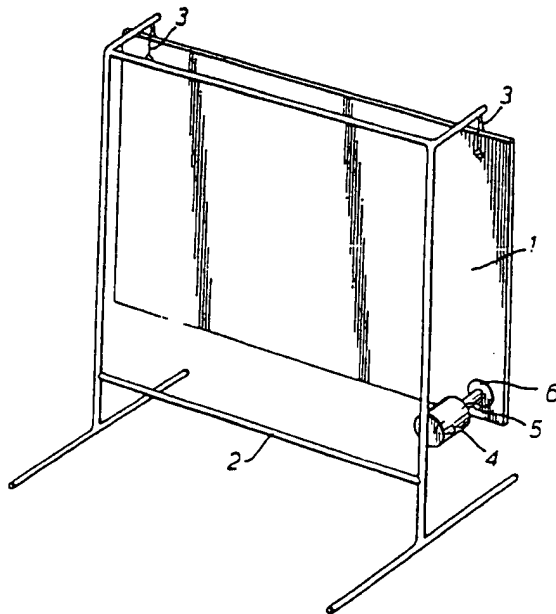
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(58) Field of search by ISA
INT CL⁵ G10K, H04R

(54) Panel-form loudspeaker

(57) A panel-form loudspeaker has a resonant multi-mode radiator panel which is excited at frequencies above the fundamental frequency and the coincidence frequency of the panel to provide high radiation efficiency through multi-modal motions within the panel, in contrast to the pistonic motions required of conventional loudspeakers. The radiator panel is a skinned composite with a honeycomb or similar core and must be such that it has a ratio of bending stiffness to the third power of panel mass per unit area (in mks units) of at least 10 and preferably at least 100. An aluminium skinned, aluminium honeycomb cored composite can meet this more severe criterion easily.



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